	CRF Errors Corrected by the STIC Systems Funch CRF Processing Date: 2/6/26
lı	imber: 09/905,075
	Changed the margins in cases where the sequence text was "wrapped" down to the next line.
	Edited a format error in the Current Application Data section, specifically:
	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other
	Added the mandatory heading and subheadings for "Current Application Data".
	Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
	Changed the spelling of a mandatory field (the headings or subheadings), specifically:
	Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
	nserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
	Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
3	
	applicant placed a response below the subheading, this was moved to its appropriate place.
1	Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically:
1	Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of the subheadings.
1	Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of page numbers throughout text; other invalid text, such as
1	Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of page numbers throughout text; other invalid text, such as
- I	Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of page numbers throughout text; other invalid text, such as Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically:
- ! - ·	Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of page numbers throughout text; other invalid text, such as Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa.

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.



OIPE

RAW SEQUENCE LISTING DATE: 02/06/2002 PATENT APPLICATION: US/09/903,395 TIME: 10:54:59

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\02062002\I903395.raw

```
4 <110 - APPLICANT: Allen, Keith D.
 6 (120) TITLE OF INVENTION: TRANSGENIC MICE CONTAINING
        MELANOCORTIN-3 RECEPTOR GENE DISRUPTIONS
10 -:130> FILE REFERENCE: R-653
12 -140> CURRENT APPLICATION NUMBER: US 09/903,395
13 <141> CURRENT FILING DATE: 2001-07-10
15 <150> PRIOR APPLICATION NUMBER: US 60/218,074
16 <151> PRIOR FILING DATE: 2000-07-12
18 <150> PRIOR APPLICATION NUMBER: US 60/243,958
19 <151> PRIOR FILING DATE: 2000-10-26
21 <160> NUMBER OF SEQ ID NOS: 4
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 1675
27 <212> TYPE: DNA
28 <213> ORGANISM: Mus musculus
30 <400> SEQUENCE: 1
31 totagactgg acagoatoca caagagaago acotagaagg agaattitoo coagcagott 60
32 geteaggace etgeaggage egeagetggg actggacetg etgttaacea tgaactette 120
33 etgetgeetg tettetgitt eteegatget geetaacete tetgageace etgeageece 180
34 teetgeeage aaceggageg geagtgggtt etgtgageag gtetteatea ageeggaggt 240
35 ottootggot otgggoatog toagtotgat ggaaaacato otggtgatoo tggotgtggt 300
36 caqqaatqqc aacctqcact ctcccatqta cttcttcctq tqcaqcctqq ctqcaqccqa 360
37 catgotgqtg agootgtoca actoootgga gaccatcatg atogoogtga toaacagoga 420
38 checetquee tiggaggade agittateda geacatggaf aatatetieg actetatgat 480
39 tigeatetes erggiggeet ecaretigeaa heleetiggee altigeealog acaggiaegi 540
40 caccatette tatgecette qqtaccaeaq cateatqaca qttaggaaaq cesteacett 600
4) mategagate atotagagtot getgegaeat etgegaeata atattoatea tetaeteega 600
42 gageaagaty greategigt gieleateae calqifette gecalggige tectoalggg 720
43 caccetatat atocacatgt tectettege caggetecac gtocagegea tegcagtget 780
44 geocectiest ggegtiggtigg ecoeacagea geactecties atgaaggigg etigteaceat 840
45 captatecty otgggtgttt teatettety etgggegeet ttetteetee acctggteet 900
46 dateateace typocecacea atoectacty catotyctae acgycocatt teaacaceta 960
4% detggttete ateatgtgea acteegteat egaceeeste atetaegeet teegeageet 1020
48 ggagetgege aacaegttea aggagattet etgeggetge aacageatga acttgggeta 1080\,
49 ggatgcccgt ggaggtgtte caeatecage caagagacaa aaacaacget cagacggdac 1140
```

[.] Control of the cont

RAW SEQUENCE LISTING

DATE: 02/06/2002 PATENT APPLICATION: US/09/903,395 TIME: 10:54:59

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\02062002\1903395.raw

57 ottabatoty typocagooto ocogaacooo typoacagaga batgacoooo ttotoootyt 1620 58 geogttytea tyyttyttät tättyttyya yttityttey tiaaaateta agett=--167560 <210> SEQ ID NO: 2 61 <211> LENGTH: 323 62 (212) TYPE: PRT 63 <213> ORGANISM: Mus musculus 65 <400> SEQUENCE: 2 66 Met Asn Ser Ser Cys Cys Leu Ser Ser Val Ser Pro Met Leu Pro Asn 67 1 10 68 Leu Ser Glu His Pro Ala Ala Pro Pro Ala Ser Asm Arg Ser Gly Ser 20 69 25 70 Gly Phe Cys Glu Gln Val Phe Ile Lys Pro Glu Val Phe Leu Ala Leu 7.1 35 4 Û 72 Cly Ilo Val Ser Leu Met Glu Asn Tle Leu Val Ile Leu Ala Val Val 55 74 Arg Asn Gly Asn Leu His Ser Pro Met Tyr Phe Phe Leu Cys Ser Leu 70 75 76 Ala Ala Ala Asp Met Leu Val Ser Leu Ser Asn Ser Leu Glu Thr Ile 85 90 78 Met Ile Ala Val Ile Asn Ser Asp Ser Leu Thr Leu Glu Asp Gln Phe 100 105 80 Ile Gln His Met Asp Asn Ile Phe Asp Ser Met Ile Cys Ile Ser Leu 115 120 125 82 Val Ala Ser Ile Cys Asn Leu Leu Ala Ile Ala Ile Asp Arg Tyr Val 135 130 84 Thr Ile Phe Tyr Ala Leu Arg Tyr His Ser Ile Met Thr Val Arg Lys 150 155 86 Ala Leu Thr Leu Ile Gly Val Ile Trp Val Cys Cys Gly Ile Cys Gly 170 165 88 Val Met Phe Ile Ile Tyr Ser Glu Ser Lys Met Val Ile Val Cys Leu 185 90 lle Thr Met Phe Phe Ala Met Val Leu Leu Met Gly Thr Leu Tyr Ile 200 195 92 His Met Phe Leu Phe Ala Arg Leu His Val Gln Arg Ile Ala Val Leu 210 215 220 94 Fro Pro Ala Gly Val Val Ala Pro Gln Gln His Ser Cys Met Lys Gly 230 235 \odot Ala Val Thr Ile Thr Ile Leu Leu Gly Val Phe Ile Phe Cys Trp Ala 245250 98 Pro Phe Phe Leu His Leu Val Leu Ile Ile Thr Cys Pro Thr Asn Pro 260 265 100 Tyr Cys Ile Cys Tyr Thr Ala His Phe Asn Thr Tyr Leu Val Leu Ile 101 275 280 285 102 Met Cvs Asn Ser Val Ile Asp Pro Leu Ile Tyr Ala Phe Arg Ser Leu 103 290 295

RAW SEQUENCE LISTING

DATE: 02/06/2002

PATENT APPLICATION: US/09/903,395

TIME: 10:54:59

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\02062002\I903395.raw

- 111~ < 211 > LENGTH:~200
- $112 \prec 212$ TYPE: DNA
- 113 <213: ORGANISM: Artificial Sequence
- 115 +220> FEATURE:
- 116 +223> OTHER INFORMATION: Targeting Vector
- 118 <400> SEQUENCE: 3
- 119 acctyctytt aaccatgaac tetteetyet geetytette tyttteteeg atgetgeeta 60
- 120 acctetetga geaccetgea geocetectg coagcaaceg gageggeagt gggttetgtg 120
- 121 agrangetett catcaageeg gaggtettee tygetetggg categreagt etgatggaaa 180
- 122 adatoctggt gatoctggct
- 124 <210> SEQ ID NO: 4
- 125 <211> LENGTH: 200
- 126 <212> TYPE: DNA
- 127 <213> ORGANISM. Artificial sequence
- 129 <220> FEATURE:
- 130 <223> OTHER INFORMATION: Targeting Vector
- 132 <400> SEQUENCE: 4
- 133 cattgccatc gacaggtacg teaceatett etatgecett eggtaceaca geateatgae 60
- 134 agtgaggaaa geeeteaeet tgateggggt eatetgggte tgetgeggea tetgeggegt 120
- 135 gatgttcatc atctactccg agagcaagat ggtcatcgtg tgtctcatca ccatgttctt 180
- 136 cgccatggtg ctcctcatgg 200

VERIFICATION SUMMARY

DATE: 02/06/2002

PATENT APPLICATION: US/09/903,395 TIME: 10:55:00

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\02062002\I903395.raw